

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A state sensing apparatus for a movable body, the state sensing apparatus comprising:

an image information collecting unit for collecting image information regarding a dashboard of a movable body; and

an image recognition unit for analyzing the collected image information ~~collected by the image information collecting unit by means of a feature-based image recognition,~~ and for sensing a state of the movable body by calculating a value corresponding to the state by means of a ratio between a current value of the state and a maximum value corresponding to a maximum of the state.

2. (Original) The state sensing apparatus for a movable body as claimed in claim 1, wherein the image information collecting unit is installed at a position a predetermined distance away from a front surface of the dashboard of the movable body.

3. (Original) The state sensing apparatus for a movable body as claimed in claim 1, wherein the image information collecting unit is a miniature camera.

4. (Canceled)

5. (Currently Amended) The state sensing apparatus for a movable body as claimed in claim ~~[[4]]~~1, wherein the maximum value is stored in the image recognition unit ~~the image recognition unit utilizes a feature-based image recognition in order to analyze image information regarding an analog dashboard.~~

6. (Currently Amended) The state sensing apparatus for a movable body as claimed in claim 5, wherein the state is a speed of the movable body and the value corresponding to the speed is

~~the image recognition unit senses a speed of the movable body by analyzing information~~
regarding a rotation angle by which a needle of an analog dashboard is rotated from a position
representing a speed of zero.

7. (Canceled)

8. (Canceled)

9. (Canceled)

10. (Currently Amended) A state sensing method for a movable body, the state sensing
method comprising the steps of:

collecting image information regarding a dashboard of a movable body; and

analyzing the collected image information by means of a feature-based image recognition,
and sensing a state of the movable body by calculating a value corresponding to the state by
means of a ratio between a current value of the state and a maximum value corresponding to a
maximum of the state.

11. (Original) The state sensing method for a movable body as claimed in claim 10, wherein, in
the collecting step, the image information regarding the dashboard of the movable body is
collected from a miniature camera installed at a position a predetermined distance away from a
front surface of the dashboard of the movable body.

12. (Canceled)

13. (Canceled)

14. (Currently Amended) The state sensing method for a movable body as claimed in claim
[[13]]10,

wherein the dashboard is an analog dashboard, and

wherein, in the analyzing step, the state is a speed of the movable body and the value
corresponding to the speed is a speed of the movable body is sensed by analyzing information for

a rotation angle by which a needle of the analog dashboard has rotated from a position representing a speed of $[[']zero[']]$.

15. (Currently Amended) The state sensing method for a movable body as claimed in claim 14, wherein the maximum value is stored in the image recognition unit, ~~in the analyzing step, speed information in accordance with the rotation angle of the dashboard needle is stored in advance and the speed of the movable body is sensed based on the stored information and the information for the rotation angle.~~

16. (Canceled)

17. (Canceled)